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CIAPR HI-71

SCHITT INTERNATION

CENTRAL DITELLIGENCE ACCRUT

Office of Research and Reports

2 May 1952

STUJECT: Fearibility of Determining Current Crop Conditions in the USE

1. Under the assumption that the weather information available in the event of hostilities in 1754 is roughly comparable to that being received at the present time, it is believed that it will be possible to predict, within a relatively narrow range, the stage of development of the various careal crops in the USE.

Unclassified data are available from which maps can be prepared showing the detec on which various percentages of the cereal crops in the USER have been soun -- for example, a map showing by regions the dates on which 75 percent of the spring wheat has been some. Having the current weather information for 1954, it will be possible to determine whether the spring is early or Late and to deduce therefrom the probable dates by which a specified percentage of cereal crops will have been some in the major grain producing areas. With the probable date of seeding as a taxe, it will be possible by following weather conditions minre went to this date to predict at any specified time the stage of development within a certain range. This range of estimation will depend on the time the estimate is to be made. In any specified region the approximate Sates for the beginning and ending of seeding often cover a period of lightenths (for example, 1 April to 15 May for spring wheat in the Lower Volga), whereas the corresponding dates for harvesting cover only about 3 weeks (20 July to IC August for Lover Volga). In other words, crops soon later than average will also be improcted later, but the time lag at each successive stage of development becomes increasingly less as the crop season progresses. It is believed that near the beginning of the greater season it will be possible to predict the stage of development within an approximate range of plus or minus. M day: As the growing season progresser, it is felt that this range may be successively narrowed for any specified locality, perhaps down to plus or since; in the actimate, it will be necessary to have extremely current weather a correction - probably not more than a week lag at the very most. It is felt it such an cetimate, based on oursest weather information, will be considsably more reliable then an estimate based on everages only.

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In addition, at the present time information on the stage of development of cereal crops in the USER is being obtained. Similar information is available for the past several years and presumably will be available at least until the outbreak of hostilities. Such information, interpreted in the light of weather conditions prevailing during those particular seasons, will be useful in predicting that will happen under similar conditions at any future date, considering, of course, the limited number of years of record available on which to base the analogy:

Controlled areas, any estimate of the stage of development of the various development of the various development in the USE must be based on average dates. From these average dates, together with their extremes, it is believed that at the beginning of the cosmon it will be possible to predict the stage of development within any specified region to within an approximate range of plus or winus 15 days. As the season progresses, it will be possible to marrow this range of estimate by a few days.

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